

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:01:15 ON 27 AUG 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:01:24 ON 27 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 AUG 2004 HIGHEST RN 732955-11-2

DICTIONARY FILE UPDATES: 25 AUG 2004 HIGHEST RN 732955-11-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

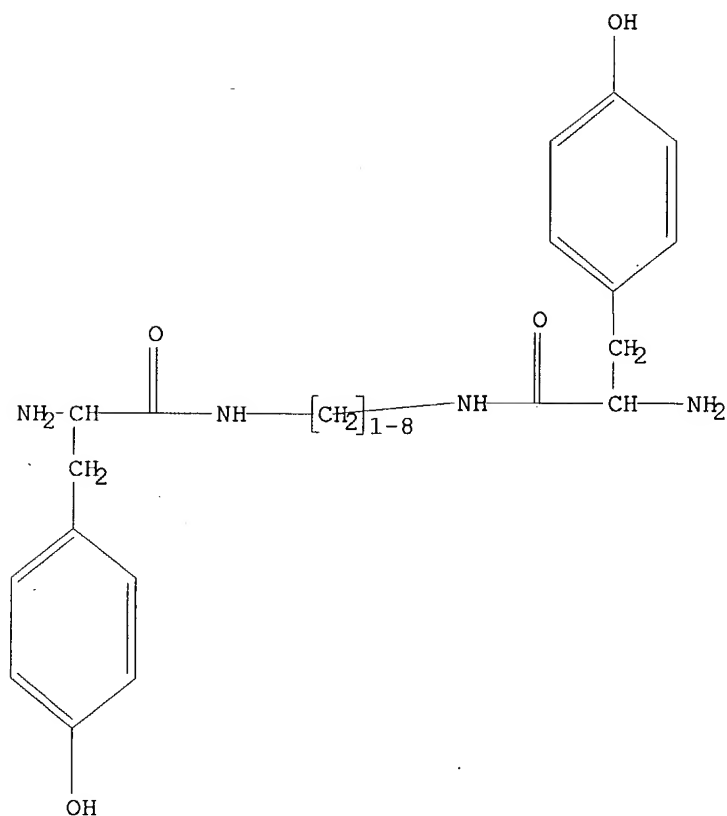
Uploading C:\STNEXP4\058192.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:01:43 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 26588 TO ITERATE

3.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 522014 TO 541506  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>

Uploading C:\STNEXP4\58192.str

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

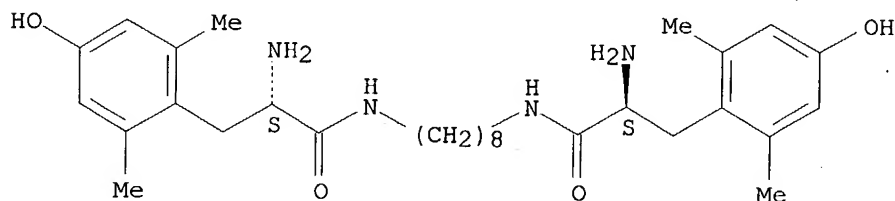
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100.0% PROCESSED      65 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
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L4                      0 SEA SSS SAM L3

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100.0% PROCESSED      1315 ITERATIONS                      12 ANSWERS
SEARCH TIME: 00.00.01
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$\Rightarrow d \mid 15 \quad 1-12$

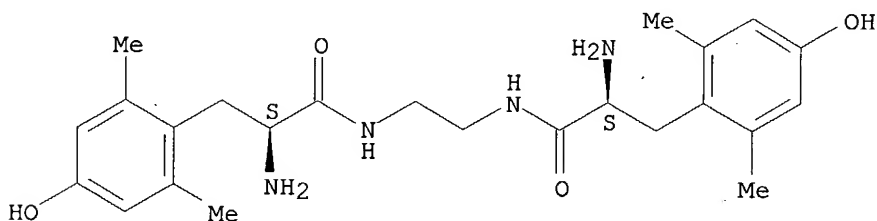
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 649757-28-8 REGISTRY  
CN Benzenepropanamide, N,N'-1,2-ethanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, dihydrochloride, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H34 N4 O4 . 2 Cl H  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);  
USES (Uses)  
CRN (573703-38-5)

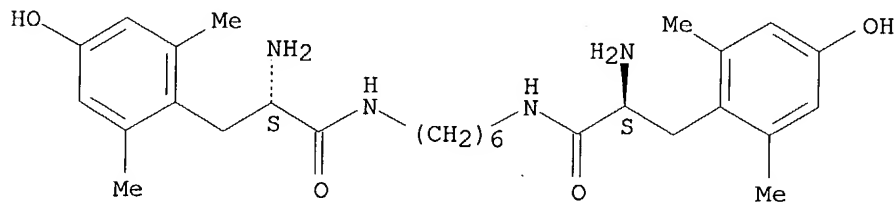
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 577977-70-9 REGISTRY  
CN Benzenepropanamide, N,N'-1,6-hexanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C28 H42 N4 O4  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.



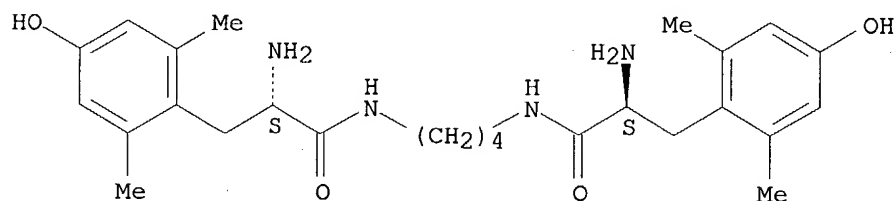
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 577977-67-4 REGISTRY  
CN Benzenepropanamide, N,N'-1,4-butanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C26 H38 N4 O4  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA CAplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

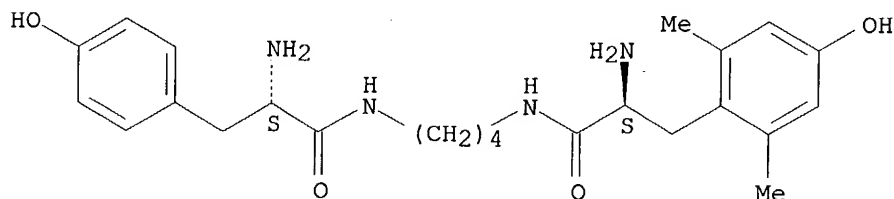


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 577977-65-2 REGISTRY  
CN Benzenepropanamide,  $\alpha$ -amino-N-[4-[[2S)-2-amino-3-(4-hydroxyphenyl)-1-oxopropyl]amino]butyl]-4-hydroxy-2,6-dimethyl-, ( $\alpha$ S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H34 N4 O4  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA CAplus document type: Journal  
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

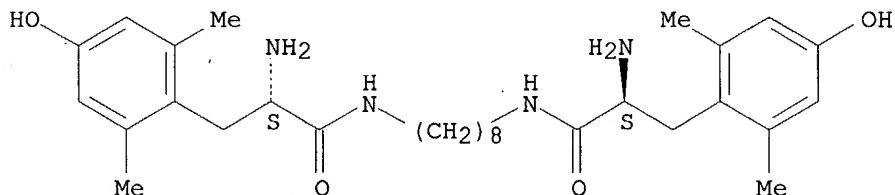
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-42-1 REGISTRY  
 CN Benzenepropanamide, N,N'-1,8-octanediylbis[α-amino-4-hydroxy-2,6-dimethyl-, (αS,α'S)-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C30 H46 N4 O4 . 2 C2 H F3 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

CM 1

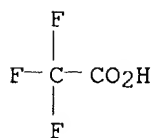
CRN 573703-41-0  
 CMF C30 H46 N4 O4

Absolute stereochemistry.



CM 2

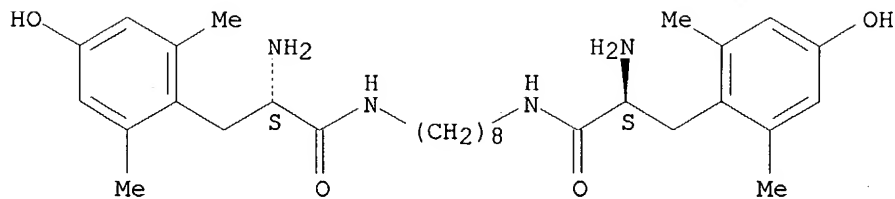
CRN 76-05-1  
 CMF C2 H F3 O2



2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-41-0 REGISTRY  
 CN Benzenepropanamide, N,N'-1,8-octanediylbis[α-amino-4-hydroxy-2,6-dimethyl-, (αS,α'S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C30 H46 N4 O4  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA Caplus document type: Journal  
 RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

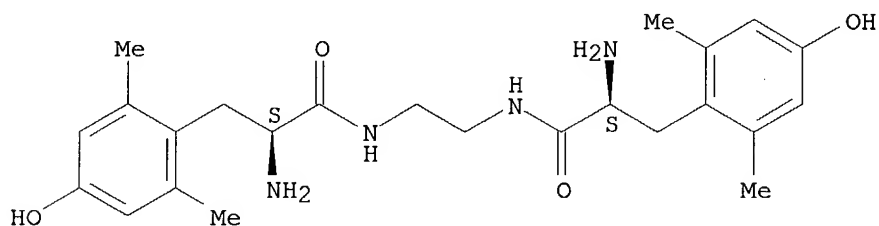
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 573703-39-6 REGISTRY  
CN Benzenepropanamide, N,N'-1,2-ethanediylbis[α-amino-4-hydroxy-2,6-dimethyl-, (αS,α'S)-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H34 N4 O4 . 2 C2 H F3 O2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

CM 1

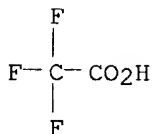
CRN 573703-38-5  
CMF C24 H34 N4 O4

Absolute stereochemistry.



CM 2

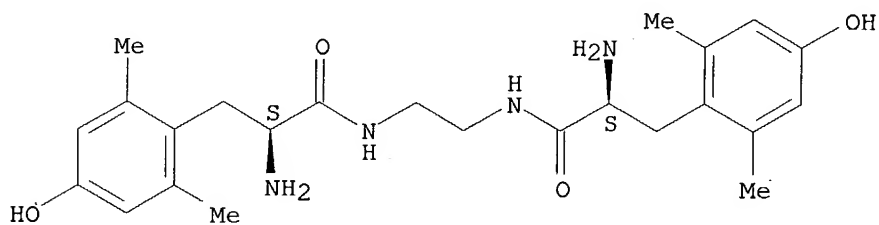
CRN 76-05-1  
CMF C2 H F3 O2



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-38-5 REGISTRY  
 CN Benzenepropanamide, N,N'-1,2-ethanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H34 N4 O4  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA Caplus document type: Journal  
 RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.

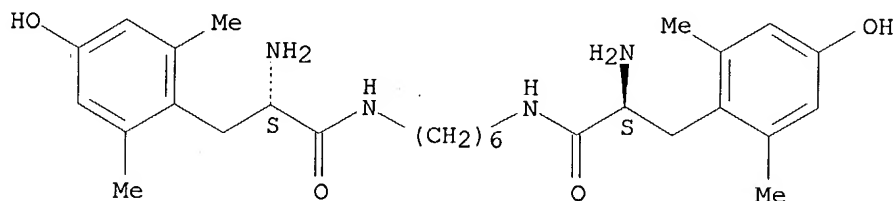


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-36-3 REGISTRY  
 CN Benzenepropanamide, N,N'-1,6-hexanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, dihydrochloride, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C28 H42 N4 O4 . 2 Cl H  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 CRN (577977-70-9)

Absolute stereochemistry.



● 2 HCl

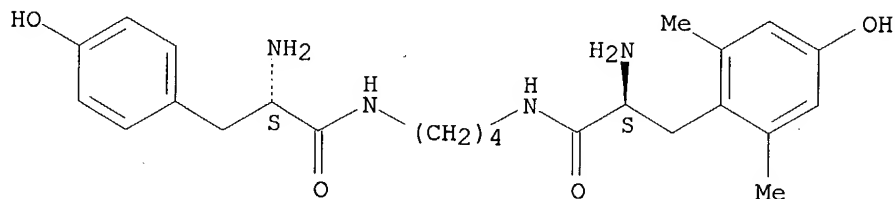
3 REFERENCES IN FILE CA (1907 TO DATE)



3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-34-1 REGISTRY  
 CN Benzenepropanamide,  $\alpha$ -amino-N-[4-[[ (2S)-2-amino-3-(4-hydroxyphenyl)-1-oxopropyl]amino]butyl]-4-hydroxy-2,6-dimethyl-, dihydrochloride, ( $\alpha$ S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H34 N4 O4 . 2 Cl H  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 CRN (577977-65-2)

Absolute stereochemistry.

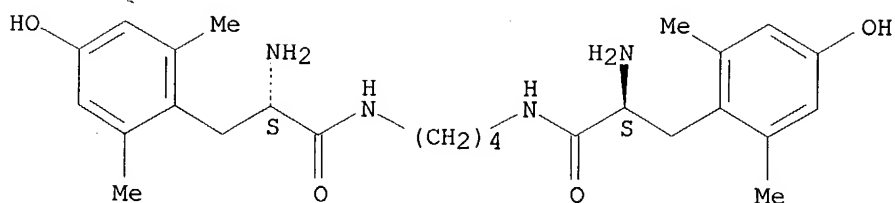


● 2 HCl

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 573703-27-2 REGISTRY  
 CN Benzenepropanamide, N,N'-1,4-butanediylbis[ $\alpha$ -amino-4-hydroxy-2,6-dimethyl-, dihydrochloride, ( $\alpha$ S, $\alpha$ 'S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H38 N4 O4 . 2 Cl H  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL  
 DT.CA Caplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)  
 CRN (577977-67-4)

Absolute stereochemistry.



● 2 HCl

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
177.92	178.13

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:03:34 ON 27 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 27 Aug 2004 VOL 141 ISS 9

FILE LAST UPDATED: 25 Aug 2004 (20040825/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 15

L6 3 L5

=> d 16 1-3

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:610409 CAPLUS

DN 139:164977

TI Preparation of tyrosine alkanediamide derivs. having  $\mu$ -opioid binding affinity

IN Okada, Yoshio; Tsuda, Yuko; Yokoi, Toshio; Bryant, Sharon D.; Lazarus, Lawrence H.

PA Teikoku Seiyaku Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003064375	A1	20030807	WO 2003-JP516	20030122
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003171302	A1	20030911	US 2002-58192	20020129
PRAI	US 2002-58192	A	20020129		
OS	MARPAT 139:164977				

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:459812 CAPLUS  
DN 139:173182  
TI Unique High-Affinity Synthetic  $\mu$ -Opioid Receptor Agonists with Central- and Systemic-Mediated Analgesia  
AU Okada, Yoshio; Tsuda, Yuko; Fujita, Yoshio; Yokoi, Toshio; Sasaki, Yusuke; Ambo, Akihiro; Konishi, Ryoji; Nagata, Mitsuhiro; Salvadori, Severo; Jinsmaa, Yunden; Bryant, Sharon D.; Lazarus, Lawrence H.  
CS Faculty of Pharmaceutical Sciences, Department of Medicinal Chemistry and High Technology Research Center, Kobe Gakuin University, Nishi, Kobe, 651-2180, Japan  
SO Journal of Medicinal Chemistry (2003), 46(15), 3201-3209  
CODEN: JMCMAR; ISSN: 0022-2623  
PB American Chemical Society  
DT Journal  
LA English  
OS CASREACT 139:173182  
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:449478 CAPLUS  
DN 140:128650  
TI Design of opioid-mimetics: dimerization of 2', 6'-dimethyl-L-tyrosine  
AU Tsuda, Yuko; Fujita, Yoshio; Miyazaki, Anna; Shiotani, Kimitaka; Fujisawa, Yutaka; Yokoi, Toshio; Li, Tingyou; Ambo, Akihiro; Sasaki, Yusuke; Bryant, Sharon D.; Lazarus, Lawrence H.; Okada, Yoshio  
CS Faculty of Pharmaceutical Sciences, Kobe Gakuin University, Nishi-ku, Kobe, 651-2180, Japan  
SO Peptide Science (2003), Volume Date 2002, 39th, 105-108  
CODEN: PSCIFQ; ISSN: 1344-7661  
PB Japanese Peptide Society  
DT Journal  
LA English  
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT